INFORMATION CITED BY APPLICANTS THAT MAY BE MATERIAL TO THE PROSECUTION OF THE SUBJECT APPLICATION

Applicants: C.F. Konzak et al.

Attorney Docket No. KONC118530

Title:

METHODS FOR GENERATING DOUBLED HAPLOID PLANTS

U.S. PATENT DOCUMENTS

*Examiner		Document			
<u>Initial</u>	ID	No.	Date	Name	
Am-	U1	5,049,503	09/17/1991	Swanson et al.	
	U2	5,272,072	12/21/1993	Kaneko et al.	
	U3	5,322,789	06/21/1994	Genovesi et al.	
	U4	5,445,961	08/29/1995	Genovesi et al.	
Ama	U5	5,900,375	05/04/1999	Simmonds et al.	

FOREIGN PATENT DOCUMENTS

None

OTHER INFORMATION (Including Author, Title, Date, Pertinent Pages, Etc.)

*Examiner		
Initial	ID	Document Information
Ama	O1	Armstrong, T.A., S.G. Metz and P.N. Mascia, "Two Regeneration Systems for the Production of Haploid Plants from Wheat Anther Culture," <i>Plant Science</i> , Vol. 51, pp. 231-237 (1987).
	O2	Ball, Shane T., HuaPing Zhou and Calvin F. Konzak, "Influence of 2,4-D, IAA, and duration of callus induction in anther cultures of spring wheat," <i>Plant Science</i> , Vol. 90, pp. 195-200 (1993).
	O3	Ball, S.T., H. Zhou, and C.F. Konzak, "Sucrose Concentration and Its Relationship to Anther Culture in Wheat," <i>Crop Science</i> , Vol. 32, pp. 149-154 (1992).
	O4	Bennett, Michael D., and W. Glyn Hughes, "Additional Mitosis in Wheat Pollen induced by Ethrel," <i>Nature</i> , Vol. 240, pp. 566-568 (Dec. 1972).
Anc	O5	Bin, Huang, "Ultrastructural Aspects of Pollen Embryogenesis in <i>Hordeum, Triticum</i> and <i>Paeonia</i> ," in Hu, H. and H.Y. Yang (Eds.) <i>Haploids of Higher Plants in Vitro</i> , China Academic Publishers, Beijing (1986) pp. 91-117.

Λ		
Amr	O6	Chih-ching, Chu, "The N ₆ Medium and its Applications to Anther Culture of
		Cereal Crops," In Proceedings of Symposium on Plant Tissue Culture, Sci. Press, Peking, China, pp. 43-50 (1978).
	O7	Chu, C.C. and R.D. Hill, "An improved anther culture method for obtaining higher frequency of pollen embryoids in Triticum aestivum L.," Plant Science, Vol. 55, pp. 175-181 (1988).
	O8	Chu, C.C., R.D. Hill and A.L. Brule-Babel, "High Frequency of Pollen Embryoid Formation and Plant Regeneration In Triticum aestivum L. on Monosaccharide Containing Media," Plant Science, Vol. 66, pp. 255-262 (1990).
	O9	Dale, Philip J., "Pollen Dimorphism and Anther Culture in Barley," <i>Planta</i> , Vol. 127, pp. 213-220 (1975).
	O10	Darvey, N.L., "Doubled haploid technology: An interactive model for germplasm enhancement," <i>Proceedings of the 9th International Wheat Genetics Symposium, Keynote Addresses and Oral Presentations</i> , Vol. 1, Sect. 5 - Transgenics (August 2-7, 1998).
	O11	De Buyser, J., P. Touraine, A. Ambroise and E. Picard, "Induction of androgenetic embryos and chlorophyllian plants of <i>Triticum aestivum</i> from isolated microspore culture," <i>Proceedings of the 9th International Wheat Genetics Symposium</i> , <i>Poster Presentations</i> , Vol. 3, Sect. 5 - Transgenics (August 2-7, 1998).
	O12	Devaux, P., "Comparison of Anther Culture and the <i>Hordeum bulbosum</i> Method for the Production of Doubled Haploids in Winter Barley," <i>Plant Breeding</i> , Vol. 100, pp. 181-187 (1988).
	O13	Falconer, Marcia M., and R.W. Seagull, "Amiprophos-methyl (APM): A Rapid, Reversible, Anti-microtuble Agent for Plant Cell Cultures," <i>Protoplasma</i> , Vol. 136, pp. 118-124 (1987).
	O14	Gustafson, Vicki D., P. Stephen Baenziger, Martha S. Wright, Walter W. Stroup and Yang Yen, "Isolated wheat microspore culture," <i>Plant Cell, Tissue and Organ Culture</i> , Vol. 42, pp. 207-213 (1995).
	O15	Heberle-Bors, Erwin, "In vitro pollen embryogenesis in <i>Nicotiana tabacum</i> L. and its relation to pollen sterility, sex balance, and floral induction of the pollen donor plants," <i>Planta</i> , Vol. 156, pp. 396-401 (1982).
	O16	Heberle-Bors, Erwin, "Induction of embryogenic pollen grains in situ and subsequent in vitro pollen embryogenesis in <i>Nicotiana tabacum</i> by treatments of the pollen donor plants with feminizing agents," <i>Physiol. Plant.</i> , Vol. 59, pp. 67-72 (1983).
	O17	Heberle-Bors, Erwin, "On the time of embryogenic pollen grain induction during sexual development of <i>Nicotiana tabacum</i> L. plants," <i>Planta</i> , Vol. 156, pp. 402-406 (1982).
Amr	O18	Heberle-Bors, E., "In vitro haploid formation from pollen: a critical review," <i>Theoretical and Applied Genetics</i> , Vol. 71, pp. 361-374 (1985).

Ame	O19	Henry, Y., and J. de Buyser, "Effect of the 1B/1R translocation on anther culture ability in wheat (<i>Triticum aestivum L.</i>), <i>Plant Cell Reports</i> , Vol. 4, pp. 307-310 (1985).
	O20	http://tdg.uofuelph.ca/CRSC/cereals/culture.htm, "Development of a Functional Microspore Culture System for Barley (Hordeum vulgare L.) Cultivars," available at least as early as 1997.
	O21	Hu, T.C., A. Ziauddin, E. Simion, and K.J. Kasha, "Isolated Microspore Culture of Wheat (<i>Triticum aestivum</i> L.) in a Defined Media," <i>In Vitro Cell. Dev. Biol.</i> , Vol. 31, pp. 79-83 (Apr. 1995).
	O22	Hu, T., and K.J. Kasha, "Improvement of isolated microspore culture of wheat (<i>Triticum aestivum</i> L.) through ovary co-culture," <i>Plant Cell Reports</i> , Vol. 16, pp. 520-525 (1997).
	O23	Hu, T.C., A. Ziauddin, E. Simion, and K.J. Kasha, "Isolated Microspore Culture of Wheat (<i>Triticum aestivum</i> L.) in a Defined Media," <i>In Vitro Cell. Dev. Biol.</i> , Vol. 31, pp. 79-83 (Apr. 1995).
	O24	Jähne, Alwine, and Horst Lörz, "Cereal microspore culture," <i>Plant Science</i> , Vol. 109, pp. 1-12 (1995).
	O25	Junwen, Ouyang, "Induction of Pollen Plants in <i>Triticum aestivum</i> ," in Hu, H. and H.Y. Yang (Eds.) <i>Haploids of Higher Plants in Vitro</i> , China Academic Publishers, Beijing (1986) pp. 26-41.
	O26	Kasha, K.J., T.C. Hu, E. Simion and R. Oro, "Cytological development of wheat microspores in culture," <i>Proceedings of the 9th International Wheat Genetics Symposium</i> , <i>Keynote Addresses and Oral Presentations</i> , Vol. 1, Sect. 5 - Transgenics (August 2-7 1998).
	O27	Kasha, K.J., A. Ziauddin and UH. Cho, "Haploids in Cereal Improvement: Anther and Microspore Culture," <i>Gene Manipulation in Plant Improvement II</i> , Crop Science Dept., Univ. of Guelph, Ontario, Canada, pp. 213-230 (1990)
	O28	Köhler, F., and G. Wenzel, "Regeneration of Isolated Barley Microspores in Conditioned Media and Trials to Characterize the Responsible Factor," <i>J. Plant Physiol.</i> , Vol. 121, pp. 181-191 (1985).
	O29	Kyo, M., and H. Harada, "Control of the developmental pathway of tobacco pollen in vitro," <i>Planta</i> , Vol. 168, pp. 427-432 (1986).
	O30	Mejza, Stephen J., Vincent Morgant, Denise E. DiBona, and James R. Wong, "Plant regeneration from isolated microspores of <i>Triticum aestivum</i> ," <i>Plant Cell Reports</i> , Vol. 12, pp. 149-153 (1993).
	O31	Morejohn, L.C., T.E. Bureau, J. Mole-Bajer, A.S. Bajer and D.E. Fosket, "Oryzalin, a dinitroaniline herbicide, binds to plant tubulin and inhibits microtubule polymerization in vitro," <i>Planta</i> , Vol. 172, pp. 252-264 (1987).
Hmb	O32	Picard, E., C. Hours, S. Grégoire, T.H. Phan and J.P. Meunier, "Significant improvement of androgenetic haploid and doubled haploid induction from wheat plants treated with a chemical hybridization agent," <i>Theoretical and Applied Genetics</i> , Vol. 74, pp. 289-297 (1987).
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Amo	O33	Puolimatka, Matti, Sisko Laine and Janos Pauk, "Effect of ovary co-cultivation
		and culture medium on embryogenesis of directly isolated microspores of wheat," Cereal Research Communications, Vol. 24:No. 4, pp. 393-400 (1996).
	O34	Reynolds, Thomas L., and Rebecca L. Crawford, "Changes in abundance of an abscisic acid-responsive, early cysteine-labeled metallothionein transcript during pollen embryogenesis in bread wheat (<i>Triticum aestivum</i>), <i>Plant Molecular Biology</i> , Vol. 32, pp. 823-829 (1996).
	O35	Touraev, Alisher, Andi Ilham, Oscar Vicente, and Erwin Heberle-Bors, "Stress-induced microspore embryogenesis in tobacco: an optimized system for molecular studies," <i>Plant Cell Reports</i> , Vol. 15, pp. 561-565 (1996).
	O36	Touraev, A., A. Indrianto, I. Wratschko, O. Vicente, E. Heberle-Bors, "Efficient microspore embryogenesis in wheat (<i>Triticum aestivum</i> L.) induced by starvation at high temperature," <i>Sex Plant Reprod.</i> , Vol. 9, pp. 209-215 (1996).
	O37	Tuvesson, Inger Kirstine Due, and Rebecka Charlotte Viktoria Öhlund, "Plant regeneration through culture of isolated microspores of <i>Triticum aestivum L.</i> ," <i>Plant Cell, Tissue and Organ Culture</i> , Vol. 34, pp. 163-167 (1993).
	O38	Vaughn K.C. and L.P. Lehnen, Jr. "Mitotic Disrupter Herbicides, " Weed Science, 39:450-457, 1991.
	O39	Xie, Jiahua, Mingwei Gao, Qihua Cai, Xiongying Cheng, Yuwei Shen and Zhuqing Liang, "Improved isolated microspore culture efficiency in medium with maltose and optimized growth regulator combination in japonica rice (Oryza sativa), Plant Cell, Tissue and Organ Culture, Vol. 42, pp. 245-250 (1995).
	O40	Zheng, Y. "The effect of 2,4-D in Pre-culture Media Before the Isolation of Microspores for In-Vitro Culture," Chapter 4 of Ph.D. Thesis, Washington State University (1994).
	O41	Zhou, Huaping, and C.F. Konzak, "Improvement of Anther Culture Methods for Haploid Production in Wheat," <i>Crop Sci.</i> , Vol. 29, pp. 817-821 (1989).
	O42	Zhou, Huaping, and Calvin F. Konzak, "Genetic control of green plant regeneration from anther culture of wheat," <i>Genome</i> , Vol. 35, pp. 957-961 (Dec. 1992).
- HMC	O43	Zhou, H., Y. Zheng and C.F. Konzak, "Osmotic potential of media affecting green plant percentage in wheat anther culture," <i>Plant Cell Reports</i> , Vol. 10, pp. 63-66 (1991).
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Examiner Date Considered 3/5/04		

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.